

**AMENDMENTS TO THE CLAIMS**

Please make the following amendments to the claims:

1-48. (Cancelled)

49-51. (Cancelled)

52. (Previously Presented) A method for reducing transmission errors in a communication system comprising:

determining that there is a periodic transient in the communication system;

responsive to determining that there is a periodic transient, causing data communications equipment to reduce its transmission rate from an original rate to a lower rate; and

causing the data communications equipment to restore its data transmission rate to the original rate after a predetermined period of time.

53. (Previously Presented) The method of claim 52, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.

54. (Previously Presented) The method of claim 52, further comprising determining a cadence of transient events corresponding to the periodic transient.

55. (Previously Presented) The method of claim 54, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.

56-59. (Cancelled)

60-62. (Cancelled)

63. (Previously Presented) A method for reducing transmission errors in a communication system comprising:

- determining that there is a periodic transient in the communication system;
- responsive to determining that there is a periodic transient, causing data communications equipment to suspend data transmission; and
- after the occurrence of a subsequent transient, causing the data communications equipment to resume data transmission.

64. (Previously Presented) The method of claim 63, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.

65. (Previously Presented) The method of claim 63, further comprising determining a cadence of transient events corresponding to the periodic transient.

66. (Previously Presented) The method of claim 65, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.

67. (Previously Presented) A method for reducing transmission errors in a communication system comprising:

- determining that there is a periodic transient in the communication system;
- responsive to determining that there is a periodic transient, causing data communications equipment to suspend data transmission; and
- after the lapse of a predetermined length of time, causing the data communications equipment to resume data transmission.

68. (Previously Presented) The method of claim 67, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.

69. (Previously Presented) The method of claim 67, further comprising determining a cadence of transient events corresponding to the periodic transient.

70. (Previously Presented) The method of claim 69, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.

71. (Previously Presented) A method for reducing transmission errors in a communication system, the method comprising:

determining that there is a periodic transient in the communication system;

responsive to determining that there is a periodic transient, causing data communications equipment to suspend data transmission; and

after failing to detect a transient for a predetermined length of time, causing the data communications equipment to resume data transmission.

72. (Previously Presented) The method of claim 71, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.

73. (Previously Presented) The method of claim 71, further comprising determining a cadence of transient events corresponding to the periodic transient.

74. (Previously Presented) The method of claim 73, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.

75. (Currently Amended) A method for reducing transmission errors in a ~~communication system~~ data communications equipment having a current transmission rate, the method comprising the steps of:

detecting a transient;

responsive to the detecting, collecting data ~~related to~~ describing one or more subsequent transients that occur over a first predetermined length of time;

~~calculating~~ determining, based on the collected data, a second time for rate adjustment;

and

at the second time, reducing the current transmission rate from a first rate.

76. (Previously Presented) The method claim 75, wherein the data comprises at least one of transient timing, transient duration, and transient rate.

77. (Currently Amended) The method of claim 75, wherein the ~~calculating~~ determining step bases the second time on at least one of cadence interval variability, a maximum duration of transmission of a pending message, a maximum duration of ~~of to~~ for receiving a longest response message, and a duration of transmission of a rate reduction command.

78. (Currently Amended) The method of claim 75, further comprising the step of:  
responsive to the detecting, reducing the current transmission rate from a second rate;

79. (Currently Amended) The method of claim ~~[[76]]~~ 78, further comprising the step of:

after the collecting step, restoring the current transmission rate to the second rate.

80. (Previously Presented) The method of claim 75, further comprising the step of:  
determining if the collected data is sufficient to calculate the second time for rate  
adjustment; and  
repeating the collecting step if the collected data is not sufficient.

81. (Currently Amended) The method of claim 75, further comprising the step of:  
at a third time, restoring the current transmission rate to the first rate, the third time based  
on an expected time of a next transient occurrence.

82. (Currently Amended) A computer readable medium having a program for  
reducing transmission errors in a ~~communication system~~ data communications equipment having  
a current transmission rate, the program comprising logic for performing the steps of:  
detecting a transient;  
responsive to the detecting, collecting data ~~related to~~ describing one or more subsequent  
transients that occur over a first predetermined length of time;  
~~calculating~~ determining, based on the collected data, a second time for rate adjustment;  
and  
at the second time, reducing or suspending the transmission rate.

83. (Previously Presented) The method of claim 82, wherein the data comprises at  
least one of transient timing, transient duration, and transient rate.

84. (Currently Amended) The method of claim 82, wherein the ~~calculating~~  
determining step bases the second time on at least one of cadence interval variability, a  
maximum duration of transmission of a pending message, ~~a~~ a maximum duration of ~~of to~~ for

receiving a longest response message, and a duration of transmission of a rate reduction command.

85. (Previously Presented) The method of claim 82, further comprising the step of: responsive to the detecting, reducing the transmission rate from a second rate;

86. (Previously Presented) The method of claim 85, further comprising the step of: after the collecting step, restoring the transmission rate to the second rate.

87. (Previously Presented) The method of claim 82, further comprising the step of: determining if the collected data is sufficient to calculate the second time for rate adjustment; and  
repeating the collecting step if the collected data is not sufficient.

88. (Previously Presented) The method of claim 82, further comprising the step of: at a third time, restoring the transmission rate to the first rate, the third time based on an expected time of a next transient occurrence.

89-93. (Cancelled)

94. (New) A method for reducing transmission errors in a data communications equipment having a current transmission rate, the method comprising the steps of:  
detecting a transient;  
collecting data, responsive to the detecting, said data characterizing one or more subsequent transients that occur during a predetermined period;  
determining, based on the collected data, a rate adjustment time; and

adjusting, at the rate adjustment time, the current transmission rate of the data communications equipment.

95. (New) The method of claim 94, wherein the collected data comprises at least one of transient timing, transient duration, and transient rate.

96. (New) The method of claim 94, further comprising the steps of:  
determining, based on the collected data, an expected occurrence time of a subsequent transient start; and  
reducing, at the expected occurrence time of the subsequent transient start, the current transmission rate of the data communications equipment.

97. (New) The system of claim 96, wherein the determining step bases the expected occurrence time on at least one of cadence interval variability, a maximum duration for transmission of a pending message, a maximum duration for receiving a longest response message, and a duration of transmission of a rate reduction command.

98. (New) The method of claim 94, further comprising the steps of:  
determining, based on the collected data, an expected occurrence time of a subsequent transient end; and  
restoring, at the expected occurrence time of the subsequent transient end, the current transmission rate of the data communications equipment.

99. (New) The system of claim 98, wherein the determining step bases the expected occurrence time on at least one of cadence interval variability, a maximum duration for

transmission of a pending message, a maximum duration for receiving a longest response message, and a duration of transmission of a rate reduction command.